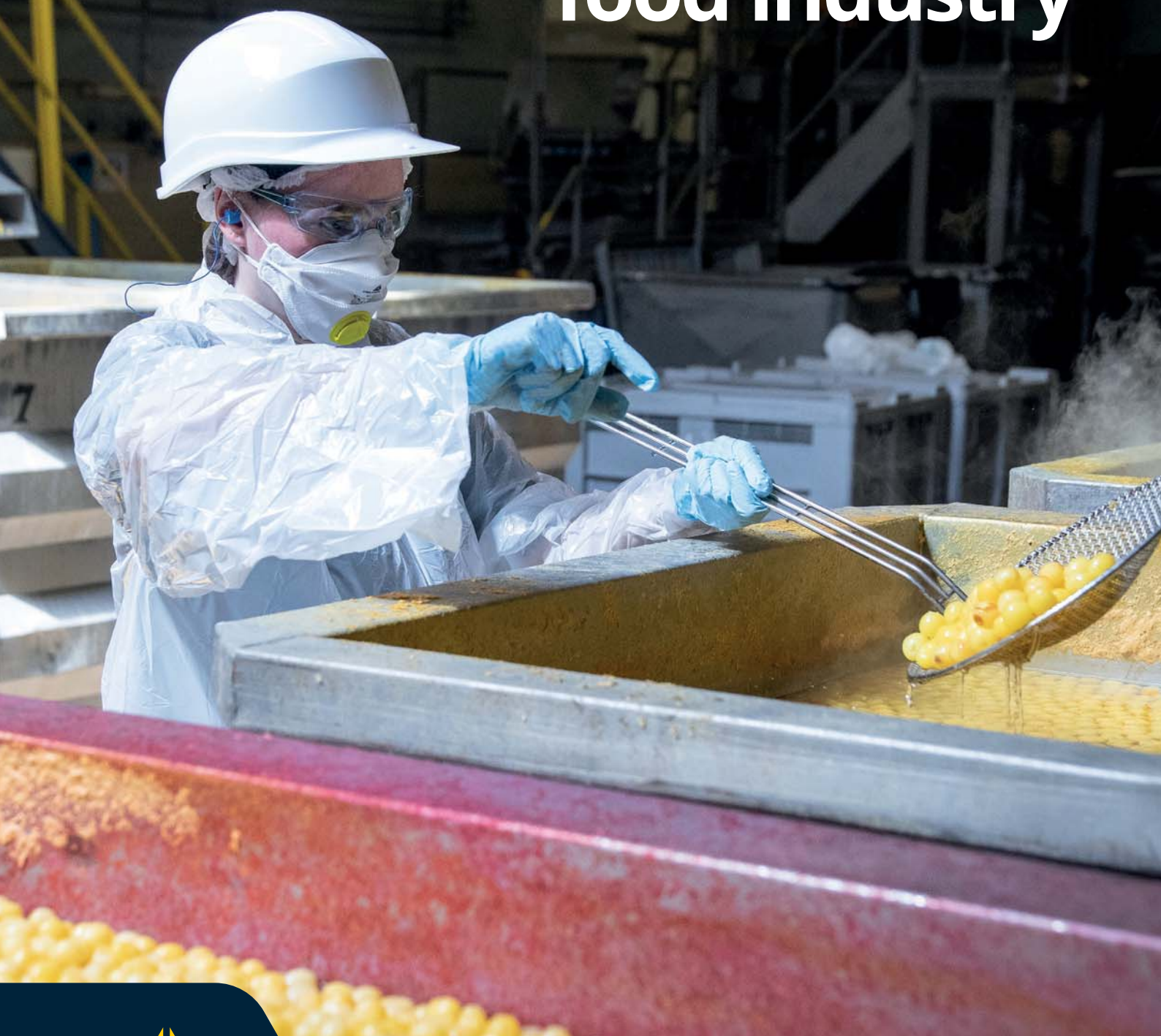




# Solutions for the **food industry**





# Risks in the food industry

In the area of food production, a lot of attention is paid to food safety. But it is important not to lose sight of worker safety.

Food production is no different from a manufacturing workshop. There are numerous similar risks, some of which are exacerbated by the addition of food products and/or the precautions taken to make these products safe for consumption. Here are a few examples of these risks.

## Summary

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## Falls to the ground

Slip and trip hazards exist in almost all workplaces. For example, handling food often results in puddles of sticky or slippery substances on the floor. Ensuring that regular cleaning is carried out is important, but not enough. Workers must wear shoes that are adapted to these conditions.

The use of a S4 SRC safety boot provides the highest level of slip resistance. The boots designed for the food industry have an angled sole design, maximising the boot's grip on wet or greasy surfaces. In some cases, where slipping is a major risk (e.g., dairies, fish shops), you can opt for a flat, granular sole that provides greater slip resistance.



The use of a **S4 SRC safety boot** provides the highest level of slip resistance.

**EN ISO 20345 :** The standard covers the fundamental and additional requirements of safety footwear. What does the standard say about slip resistance?

The glide performance of the sole is represented by the SRA, SRB and SRC tests.

**SRA :** Test on ceramic tile floor with the addition of sodium lauryl sulphate (NaLS), which can be considered to be a detergent or household product.

**SRB :** Test on a steel floor with the addition of glycerin which can be considered as oil

The SRA and SRB tests are performed by tilting the shoe at an angle of 7° and then subjecting it to a force of 500 N, with the addition of sodium lauryl sulphate (SRA) or glycerol (SRB). **The SRA + SRB levels must be validated to obtain the SRC performance level.**

### Requirements for SRA:

- Forward sliding of the heel must be:  $\geq 0.28$
- Forward sliding on flat surface must be:  $\geq 0.32$

### Requirements for SRB:

- Forward sliding of the heel must be:  $\geq 0.13$
- Forward sliding on flat surface must be:  $\geq 0.18$

## Harmful substances

Many harmful substances can be used in food production.

Protection against hazardous chemicals starts by educating and training professionals. Make sure that MSDSs are available to staff and that they have been trained in the risks of the chemicals used in the workspace, so that they are aware of the PPE to wear.

Different types of respiratory protections exist, and it is important to identify the risks in order to have the right protection.

A disposable FFP1/2 or 3 mask may be sufficient in some situations. In others, you will need more complete protection such as a full-face mask with cartridge filter. It will be necessary to identify the chemicals used in order to have the right protective filters.



The use of a **FFP3 mask** protects against solid and/or liquid aerosols indicated as toxic.

**EN149 :** Filtering half-masks

Impact, cleaning and disinfection, temperature, flame and breathing resistance tests.

P1 Non-toxic dusts and/or water-based aerosols.

P2 Solid and/or liquid aerosols with low toxicity or irritation.

P3 Toxic solid and/or liquid aerosols.

**EN140 :** reusable half-mask

**EN136 :** reusable full mask

## Dangerous noise

Machines tend to be noisy. It is important that you assess the noise risks in your facility and choose the best protection considering the intensity and duration of exposure. The protection must bring the noise to a level that is not harmful to the worker's health while avoiding overprotection that would cut him off from his environment.

- ▶ **Blue hearing protection** (food industry) is easy to detect visually.
- ▶ **Metallically charged earplugs** make them detectable electromagnetically or by x-ray.
- ▶ **A cord is used to avoid losing the protections.** It should also be detectable.

**EN352-1** : Earmuffs.

**EN352-2** : Earplugs.

**EN352-3** : Earmuffs mounted on construction helmets.

Requirements for construction, design, performance and test methods. Prescribe the provision of information on the features.

**Requirements of Directive 2003/10/EC:** Minimum requirements for the protection of workers from risks related to 8 hours of exposure to noise.

at  $\geq 85$  dB(A): Hearing protection mandatory

at  $\geq 80$  dB(A) and  $< 85$  dB(A): Hearing protection at the worker's disposal

at  $> 75$  dB(A) and  $< 80$  dB(A): Hearing protection recommended



The use of a **detectable, blue coloured noise canceller** with cord ensures optimum protection for the food industry.

## Projections risks (eyes / face)

Goggles are intended to protect the eyes from external influences such as splinters, dust and radiation.

Mechanical risk arises from the projection of abrasive particles or clouds of dust. Chemical risk is related to the projection of irritating, toxic or harmful powders, aerosols, liquids, gases or vapours that react with the components of the eye. Biological risk is induced by the penetration of viral, bacterial or fungal particles, with the risk of contamination.

**EN166** : eye protection/ applies to all types of personal eye protectors against hazards that can damage the eye except nuclear radiation, x-rays, laser emissions and IR emitted by low temperature sources. Does not apply to eye protectors, which have separate standards.



## Thermal risks

EN 407 standard gloves are designed to protect against thermal risks such as fire, contact heat, convective heat, radiant heat, molten metal splashes, etc.

Nevertheless, EN 407 gloves are often used in the food industry to protect against contact heat when handling products coming out of an oven, for example.



**EN407 :** Contact heat. This test consists of measuring the temperature at which the internal temperature of the glove increases. The heat source is between 100 and 500°C and the internal temperature of the glove should not normally exceed 10°C during the first 15 seconds of exposure. Protection index from 0 to 4.



## Mechanical & cutting risks

Blades are quite common in a food processing plant, which indicates that protection against lacerations is also common.

Hand injuries are among the most common in the professional world. This holds even more true in the food industry, where the risk of cuts is even greater than anywhere else: whether it is when cutting vegetables, slicing meat, cleaning cutting machines, sharpening blades, etc.



**Cut-resistant gloves** are standardised from B to F and can be combined with a cuff to suit the intended use.



**EN388 : 2016 :** Applies to gloves for protection against mechanical risks and includes tests to assess the resistance of textiles and leathers:

- Abrasion resistance
- Coupe Test - Cut resistance
- Tear resistance
- Puncture resistance

## Food contamination

Any worker who comes into contact with factories and/or handles food must wear protective clothing that keeps their clothes clean and prevents cross-contamination of the environment. This means that the carriers remain clean, and the food handled is not contaminated.

It is mandatory to wear gloves approved for food contact. Just like wearing a hairnet to prevent, for example, a strand from falling into a preparation and infecting it completely.

The risk of food contamination requires a boot without any rough edges, to facilitate washing and removal of organic deposits. The sole must have tunnels for draining liquids and solids, to allow for optimal washing and maintaining glide performance.



Food compatibility is governed by **Regulation (EC) No 1935/2004** of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food.

## Cold-related risks

Cold stores, cold rooms, outdoor work in winter, etc. Many professional situations expose employees to natural or artificial cold. This direct exposure to cold poses health risks to workers. It also leads to the occurrence of accidents. Vigilance is required when the ambient temperature is below 5°C. The most effective prevention is to avoid or limit the time spent working in the cold.

The ideal solution to protect yourself from the cold is to multiply the layers of clothing to improve thermal insulation thanks to the air trapped in and between each layer.

Three layers are a minimum: an undergarment to wick away perspiration, a fleece layer to insulate against the cold and a long padded parka to protect against the cold.

Gloves meeting the EN511 standard are intended for use in the food industry for handling frozen products, dry and non-sterilised foods in a cold or refrigerated environment, or simply handling in cold environments.



The use of products that meet **EN511 standards (gloves), EN342 or EN14058 (garments) and EN ISO 20345 CI (footwear)** guaranteeing protection against cold.



**EN511** : Applies to work gloves to be used in cold environments that undergo three tests to be considered compliant with this standard:

- Resistance to convective cold
- Resistance to contact cold
- Waterproof

**EN342** : Requirements and test methods for the performance of garments for protection against cold at temperatures below - 5°C (refrigeration/extreme cold).

3 tests are carried out:

- Mannequin: recommended wearing time depending on temperature and activity level of the wearer.
- Air permeability: windshield.
- Resistance to water penetration: waterproof.

**EN14058** : Performance requirements and test methods for garments (waistcoats, jackets, coats, trousers) for protection against cool climates (use at moderately low temperature, -5°C and below, to protect against local skin cooling). Used for outdoor activities, for example in the construction industry, the garments can also be used for indoor activities, for example in the food industry. In this case, it is not always necessary to have waterproof or watertight garments.





## Electrical risks

Industrial machines need electrical power to operate, so you need to consider electrical risks in your prevention procedures. Inspections of wiring, protection of live parts, earthing of equipment and blocking and interlocking procedures should all be considered in a food production plant.

One of the major risks is the electric arc, which injures through impact of explosion and burns through very high temperature rise. Suitable clothing in accordance with standard 11682 combined with head, face and hand protection is essential when working on an electric meter, in particular. Specific footwear may be required against electrical hazards.



A **combination of different types of protection** may be required to provide adequate protection for the user.



**GS-ET 29** : Electrical insulating helmets for use on or near live installations not exceeding 1000 VAC or 1500 VDC (electrical class 0).

**EN50365** : Electrically insulating helmets for use on or near installations under voltage not exceeding 1000 VAC or 1500 VDC (electrical class 0)..

**EN16350** : Electrostatic properties for protective gloves

Concerns the requirements for gloves used in explosive areas (ATEX).

**EN ISO 61340-5-1** : General requirements for ESD protection of footwear.

Test methods used to determine the electrical resistance of footwear used for monitoring the electrostatic potential of the wearer at the workplace.

Although this list of hazards you might encounter in the food industry is far from exhaustive, it gives you a good starting point **for your risk analysis and the implementation of appropriate PPE.**

Production

# Line operator

**P0110**

An elasticated edge for a perfect fit on all body types

**CONICDE010**

High protection (SNR36dB) against noise and detectable

**M1204V**

4 folds that suitable for all faces and facilitate facial movements.

**V1450PB100**

Black colour ideal for dirty environments

**BLOUSPO**

Ideal dirt protection

**ORGANO S4 SRA**

Additional protection for the malleoli



**P0110**

Round mobcap. Non-woven polypropylene 10 g/m<sup>2</sup>. Elasticated border. 53 cm in diameter. Dispenser box of 100 pieces.

**M1204V**

Box of 10 non woven synthetic fibre disposable masks FFP2. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.

CE EN149

**BLOUSPO**

Coat. Non-woven polypropylene 30 g/m<sup>2</sup>. Fastening with 4 press studs. Shirt collar. Made-up sleeves. 2 patched low pockets. Suitable for food industry. Individual pack.

**ORGANO S4 SRA**

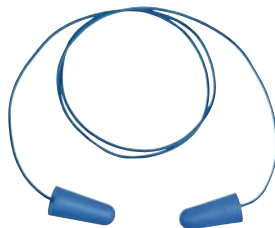
Upper: PVC. Lining: Polyester. Sole: PVC - Nitrile.

CE EN ISO 20345  
S4 SRA

**HELIUM2 DETECTABLE**

Ultra light polycarbonate single lens glasses. Integrated polycarbonate nose piece. Thin and flexible frame. Suitable for long duration wear.

CE EN166 EN170 ANSI-ISEA 287.1  
1 FT/FT 2C-1.2 287+ U6 L1.3

**CONICDE010**

Bag of 10 pairs of detectable polyurethane earplugs with detectable plastic cord. Brass and iron inserts, suitable for food industry. (9 pairs in bag + 1 pair in storage plastic box).

CE EN352-2 SNR 36dB ANSI S3.19  
H 34 M 34 L 31 NRR 33 dB  
Ø 7-12 mm

**V1450B100**

Powder-free nitrile. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.

CE EN ISO 374-1 EN ISO 374-5  
TYPE B JKT  
VIRUS

**Additional solutions****P0115****HELIUM2 BLUE BLOCKER****M1200****M1200VB****CONICFIRDE010****V1400PB100****VE920****VE830****VE440****P0109****TABPU****SURCHPE****KEMIS S4 CI SRC**

Production

# Nutrition engineer

**HEKLA2**

Lightweight over-glasses

**M1304V**

High performance valve for reduced fogging, heat, moisture and improved breathability

**VE830**

A chlorinated interior for less risk of allergies

**TABPU**

Adjustable size so that you are not hindered in your work

**PHYSIOMC OB SRA**

Easy drainage of fluids and solids thanks to its high and wide studs



**P0115**

Chin/beard protector. Non-woven polypropylene 10 g/m<sup>2</sup>. Elasticated for a good fit. Dispenser box of 100 pieces.

**M1304V**

Box of 10 non woven synthetic fibre disposable masks FFP3. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.

CE EN149

**VE830**

Thin nitrile. Chlorinated smooth inside. Length: 33 cm. Thickness: 0,20 mm.

CE EN388 EN ISO 374-1 EN ISO 374-5  
2001X TYPE A JKLOPT

**TABPU**

Apron. Elasticated strap with hook. Adjustment buckle on the waist. Dimensions: 115 cm x 90 cm. Thickness: 0,30 mm. 100% polyurethane 355 g/m<sup>2</sup>.

CE

**HEKLA2**

Single lens polycarbonate over glasses. Side shields. Integrated polycarbonate nose piece. Flexible polycarbonate arms. Suitable for all types of prescription glasses.

CE EN166 EN170 1 FT/FT 2C-1.2 ANSI ANSI-ISEA Z87.1 Z87+ U6

**CONICFIRDE010**

Bag of 10 pairs of detectable and reusable TPR earplugs with plastic cord. Iron and brass inserts, suitable for food industry. Can be used with or without cord (9 pairs in bag + 1 pair in storage plastic box).

CE EN352-2 SNR 34dB H 33 M 32 L 31 Ø 8-12 mm ANSI ANSI S3.19 NRR 26 dB

**BLOUSPO**

Coat. Non-woven polypropylene 30 g/m<sup>2</sup>. Fastening with 4 press studs. Shirt collar. Made-up sleeves. 2 patched low pockets. Suitable for food industry. Individual pack.

**PHYSIOMC OB SRA**

Upper: PVC. Lining: Polyester. Sole: PVC.

CE EN ISO 20347 OB SRA

**Additional solutions****P0110****BALBI2****PITON2 CLEAR****CONICDE010****M6400 CHEMKIT****M1304VW****M1300SM15 SPIDERMASKP315****V1310****V1340****V1400B100****P0106****KEMIS S4 CI SRC**



Control, analysis & laboratory

# Manufacturing operator

## HELIUM2 DETECTABLE

Extremely light, comfortable glasses with a very good hold

## V1400PB100

Powdered interior for easy donning of gloves

## KEMIS S4 CI SRC

A smooth stem for easy disinfection  
An outsole with a high level of anti-slip resistance



**PO110**

Round mobcap. Non-woven polypropylene 10 g/m<sup>2</sup>. Elasticated border. 53 cm in diameter. Dispenser box of 100 pieces.

**HELIUM2 DETECTABLE**

Ultra light polycarbonate single lens glasses. Integrated polycarbonate nose piece. Thin and flexible frame. Suitable for long duration wear.

CE EN166 1 FT/FT EN170 2C-1.2 ANSI ANSI-ISEA Z87.1 Z87+ U6 L1.3

**CONICFIRDE010**

Bag of 10 pairs of detectable and reusable TPR earplugs with plastic cord. Iron and brass inserts. Can be used with or without cord (9 pairs in bag + 1 pair in storage plastic box).

CE EN352-2 SNR 34dB H 33 M 32 L 31 Ø 8-12 mm ANSI ANSI S3.19 NRR 26 dB

**HM11001U**

Dispenser box of 50 Type II disposable medical face masks. Class 1 medical device. 3 pleats. Adjustable nose clip. Elastic ear loops. Non-woven polypropylene.

CE EN14683 II \* 98% ISO 22609 EN ISO 13485 80mmHg

**BLOUSPO**

Coat. Non-woven polypropylene 30 g/m<sup>2</sup>. Fastening with 4 press studs. Shirt collar. Made-up sleeves. 2 patched low pockets. Suitable for food industry. Individual pack.

**V1400PB100**

Powdered nitrile. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves..

CE EN ISO 374-1 EN ISO 374-5  
TYPE B JKT  
VIRUS

**KEMIS S4 CI SRC**

Upper: PVC. Lining: cotton jersey. Insock: Removable, washable and insulating. Rear removal lug. Protective toe cap: stainless steel. Sole: PVC - Nitrile.

CE EN ISO 20345 S4 CI SRC

**Additional solutions****PO115****BALBI2****M1100VB****M1100****CONICDE010****VENICUTB00****VENICUT10****V1400B100****PO106****PO109****TABPU****SURCHPE****ORGANO S4 SRA**



Control, analysis &amp; laboratory

# Health inspector

**ZIRCON1**

A lightweight helmet for all-day comfort

**HELIUM2 DETECTABLE**

Glasses with double injection stems for prolonged, pressure-free wear

**CONICFIRDE010**

Its 3-fin design allows for better sealing and noise reduction

**M1204V**

4 folds that suitable for all faces and facilitate facial movements.

**BLOUSPE**

3 press studs and shirt collar ideal for visitors and interveners

**V1400PB100**

The glove is easy to wear thanks to its powdered finish

**NITRIC SB FO SRC**

Thanks to its specific studs, the high performance SRC outsole is ideal for use on wet surfaces, in fish shops or in the dairy industry.



**ZIRCON1**

UV-resistant high density polyethylene (HDPE) or polypropylene (PP) safety helmet. Low density (LDPE) polyethylene cradle with 8 fixing points. Sweat band. Manual adjustment: head sizes 53/63 cm. Electrical Insulation up to 1 000 V.A.C. or 1 500 V.D.C. Standard holes for accessories. Anchorage for chin straps with 2 or 4 points..

CE EN397  
-10°C +50°C  
440VAC  
EN50365  
CLASSE 0

**M1204V**

Box of 10 non woven synthetic fibre disposable masks FFP2. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.

CE EN149

**V1400PB100**

Powdered nitrile. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves..

CE EN ISO 374-1 EN ISO 374-5  
TYPE B  
JKT  
VIRUS

**NITRIC SB FO SRC**

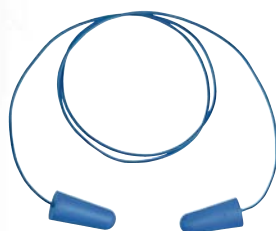
Upper: PVC. Lining: Cotton jersey. Protection of the malleoli. Protective toe cap: stainless steel. Sole: PVC - Nitrile.

CE EN ISO 20345  
SB FO  
SRC

**HELIUM 2 DETECTABLE**

Ultra light polycarbonate single lens glasses. Integrated polycarbonate nose piece. Thin and flexible frame. Suitable for long duration wear.

CE EN166 EN170  
1 FT/FT UV 2C-1.2  
ANSI ANSI-ISEA 287.1  
287+ U6 L1.3

**CONICDE010**

Bag of 10 pairs of detectable polyurethane earplugs with detectable plastic cord. Brass and iron inserts, suitable for food industry. (9 pairs in bag + 1 pair in storage plastic box).

CE EN352-2  
SNR 36dB  
H 34 M 34 L 31  
Ø 7-12 mm  
ANSI ANSI S3.19  
NRR 33 dB

**PO110**

Round mobcap. Non-woven polypropylene 10 g/m². Elasticated border. 53 cm in diameter. Dispenser box of 100 pieces.

**BLOUSPE**

Coat for visitors. Polyethylene 18 µm. Fastening with 3 press studs. Shirt collar. Raglan sleeves. Dispenser box of 100 pieces.

**Additional solutions****QUARTZ I****VISOR PC****VISOR HOLDER****PACAYA LYVIZ****SAJAMA****M1200V****PO115****M6400 CHEMKIT****GALAXY ROTOR****CONICFIRDE010****V1340****VE440****VE830****VE920****PO106****KITVI****TABPU****SURCHPE****PHYSIOHC OB SRA**

Logistics

# Packaging agent

**M1104**

A 4-ply design, without staples and detectable thanks to its nose clip

**V1400B100**

Powder-free glove to prevent risk of contamination



**P0110**

Round mobcap. Non-woven polypropylene 10 g/m². Elasticated border. 53 cm in diameter. Dispenser box of 100 pieces.

**M1104**

Box of 20 non woven synthetic fibre disposable masks FFP1. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.

CE EN149

**V1400B100**

Powder-free nitrile. Suitable for food industry. AQL 1.5. Box of 100 disposable gloves.

CE EN ISO 374-1 EN ISO 374-5



TYPE B  
JKT

**BLOUSPO**

Coat. Non-woven polypropylene 30 g/m². Fastening with 4 press studs. Shirt collar. Made-up sleeves. 2 patched low pockets. Suitable for food industry. Individual pack.

**M2PA3STRF**

Woman's trousers. Adjusted cut. Elasticated waist on both sides. Preformed knees. 7 pockets including 1 ruler. Twill 63% polyester 34% cotton 3% elastane 260 g/m².

A woman's fitted stretch cut for for more freedom of movement

CE EN14404



TYPE 2  
NIVEAU 1

**MIAMI S2 SRC**

Upper: Microfibre/PU. Insock: Removable premolded - polyester on EVA. Midsole: Injected - Single density PU.

A water-resistant microfibre upper

CE EN ISO 20345  
S2  
SRC

**Additional solutions****BRAVA2 CLEAR AB****IRAYA CLEAR****INTERLAGOS LIGHT****CONICMOVE01****VENICUTCM1****VENICUTC05****VENICUT10****BALI****OLINO****GDOON****M6PAN****M2PA3STR**



Logistics

# Delivery driver

**EASYVIEW**

Very good visibility even from a distance, guaranteed by the class 3 certification

**W734**

The touch function allows you to work on tablets while wearing your gloves

**M2PA3**

Performed knees for more comfort in the sitting position

**BROOKLYN S3 SRC**

Optimal stabilisation of the foot when walking due to the rear support





**EASYVIEW**

Warm parka Waterproof seams. Fix hood. Fastening with zip under velcro storm flap. High visibility: Class 3 - Silver colour - Shoulder-belt and parallel assembly. 4 pockets. Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining. Retro-reflective sewn bands.

**W734**

Polyester/Spandex. Foam nitrile and TPU coating on palm and fingertips. Gauge 15.

**M2PA3F**

Woman's trousers. Regular cut. Elasticated waist on both sides. Preformed knees. 7 pockets including 1 ruler. Twill 65% polyester 35% cotton 245 g/m².

**BROOKLYN S3 SRC**

Upper: Suede split leather (cowhide), S3 water resistant treatment with front rubber reinforcement. Lining: Polyester non-woven and knitted mesh. Insock: Removable premolded - Polyester on EVA. Outsole: Cemented - Phylon. Outsole: Rubber. Non metallic shoe.

**Additional solutions****AIR COLTAN****KAIZIO****PACAYA SMOKE****FUJ12 GRADIENT****BLOW2 MIRROR****VE702PN****VE728****W735****NORTHWOOD3****STOCKTON3****M2PA3****RENO HV****LEGA****BOSTON S1P SRC**



Maintenance, engineering, work

# Refrigeration expert

**CONIC010**

High performance, disposable earplugs, comfortable and pleasant to wear

**NORDLAND & ICEBERG**

Guaranteed protection against extreme cold due to its EN342 standardised insulating complex

**W736**

Its design guarantees optimal protection up to -30°C

**ESKIMO**

Its PU outsole guarantees optimal protection up to -30°C



**JURA**

Double thickness cap in acrylic knit.

**NORDLAND**

Parka. Waterproof seams. Removable hood. Collar with polar lining for optimal comfort. Fastening with double zip under press stud storm flap. Adjustable waist and bottom with elastic drawstring. 7 pockets. Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining.

CE EN342  
0.358 M<sup>2</sup>.K/W (B)  
3  
X

**ICEBERG**

Warm Salopette. Waterproof seams. Adjustable waist with elastic drawstring. Adjustable braces. Preformed and reinforced knees. 5 pockets. Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining.

CE EN342  
0.358 M<sup>2</sup>.K/W (B)  
3  
X

**CONIC010**

Bag of 10 pairs of disposable polyurethane earplugs. Individual plastic bag of 2 earplugs.

CE EN352-2 SNR 36dB  
H 34 M 34 L 31  
Ø 7-12 mm  
ANSI ANSI S3.19  
NRR 33 dB

**W736**

Inside: 100% acrylic gauge 10. Outside: 100% polyamide gauge 15. Full latex coating of the hand. Second foam latex coating on palm and fingertips.

CE EN388 EN511 EN407  
2 2 3 1 X 1 2 1 X 2 X X X X

**ESKIMO**

Canadian safety boot. Upper: PU and Polyester. Lining: SNOWTEX™ fur-lined and DELTA-TEX™ waterproof polyester membrane + fur-lined polyester collar. Insock: Removable premolded - Felt. Outsole: Injected - Dual density PU resistant to -30°C. Amagnetic boot.

CE EN ISO 20345  
SBH P A E FO CI WR  
SRC

**Additional solutions****QUARTZ UP IV****WINTERCAP****KAIZIO****HELIUM2 CLEAR****INTERLAGOS NB****INTERLAGOS****VW750****VW903****VW728****KOLDYTOP****KOLDYPANT****VERNON****JUMPER3 S3 HC**



Maintenance, engineering, work

# Electrical mechanic

THESE GARMENTS ARE  
NOT STANDARDISED  
TO WITHSTAND  
ELECTRICAL SHOCKS

**ONYX**

A lightweight and balanced electrician's helmet designed for lasting comfort

**VV914**

Its neoprene foam offers excellent flame resistance

**MEMPHIS S1P SRC ESD**

Its seamless construction offers lasting protection.

## ONYX



ABS dual shell safety helmet with PC retractable visor. Sport and dynamic design. 3 textile straps with 6 fixing points. Foam sweat band. One-D Rotor clamping system: head size 53 to 63 cm. 2 possible positions of the headband (top/low) for a better comfort. Retro-reflective stickers. Electrical insulation up to 1 000 V.A.C. or 1 500 V.D.C., protection against arc fault Class 1 (GS-ET 29). Visor with anti-Fog N and anti-scratch K treatments and protection against electrical arcs, and molten metals or hot liquids projections.

CE EN397  
MM LD  
-20°C +50°C  
440VAC

EN166  
1 AT 8 9 KN  
3 8 9 AT

EN170  
2C-1.2

EN50365  
CLASS 0

GS-ET 29  
8-1-0  
CLASS 1  
CLASS 0  
8-1

ANSI  
ANSI-ISEA 287.1  
287+ U6 D3

ANSI-ISEA 289.1  
Type 1  
CLASS E  
53-63 cm

## MYSEN2



Softshell jacket with removable sleeves. Fastening with zip under storm flap. Bottom of sleeves with bias finishing. 5 pockets. Tissue «Softshell» 96% polyester 4% elasthanne.

## W914



Para-aramid/Fibreglass/Modacrylic. Foam neopren coating on palm and fingertips. Gauge 10.

CE EN388  
3 X 4 3 E

EN407  
4 2 X X X X

ASTM  
ASTM-F-2675M  
50 (CAL/CMF)

## M5PA2



Trousers. Elasticated waist on both sides. Preformed knees. 8 pockets including 1 ruler. Canvas 60% cotton 40% polyester 270 g/m². Yokes: polyamide and Oxford polyester.

CE EN14404  
TYPE 2  
LEVEL 1

## MEMPHIS S1P SRC ESD



Upper: Injected PU on mesh. Lining: Polyester. Insole: Removable premolded - Polyester on EVA. Outsole: Cemented - Phylon. Outsole: Rubber Nitrile. Non metallic footwear.

CE EN ISO 20345  
S1P HRO  
SRC

EN61340  
ESD

## Additional solutions

## QUARTZ UP III



## VISOR U



## VISOR FLASH



## M1200V



## M1200SM



## GOTEBORG



## M5VE2



## M2PA3F



## M2PA3



## BOSTON S1P





Maintenance, engineering, work

# Maintenance agent

**INTERLAGOS NB**

The rear port allows it to be combined with a helmet. Its highly enveloping casing provides perfect protection.

**IRAYA CLEAR**

Innovative and modern eyewear design, wraparound for greater visibility.

**M1204V**

Ideal protection for use over an extended period of time in an aggressive environment.

**VENICUTD06**

The thinnest all-purpose glove on the market that respects the environment and the people at work.

**M2PA3STR**

Stretch-fit for more freedom of movement.

**JUMPER S3 SRC**

An outsole specially designed to guarantee the highest level of anti-slip performance (+30% vs ISO 20345 standard).



**IRAYA CLEAR**

Polycarbonate glasses. Sport design. Polycarbonate frame for better comfort and durability.

CE EN166 EN170  
1 FT/FT 2C-1.2 (ANSI) ANSI-ISEA 287.1  
287+ U6

**M1204V**

Box of 10 non woven synthetic fibre disposable masks FFP2. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.

CE EN149

**M2VE3**

Jacket. Elasticated cuffs. Elasticated waist on both sides. 7 pockets including 1 inside. Twill 65% polyester 35% cotton 245 g/m².

CE

**M2PA3STR**

Trousers. Adjusted cut. Elasticated waist on both sides. Preformed knees. 7 pockets including 1 ruler. Twill 63% polyester 34% cotton 3% elastane 260 g/m².

CE EN14404  
TYPE 2  
LEVEL 1

**INTERLAGOS NB**

Ear defenders for wearing around the neck. Textile support strap. Metal arch and ABS cups, padded with synthetic foam.

CE EN352-1  
SNR 28 dB  
H 33 M 26 L 15  
S/M/L

**VENICUTD06**

DELTAAnocut® high performance fibre. Nitrile micro-foam coating on palm and fingertips. Gauge 18.

CE EN388 EN407 EN16350 (ANSI)  
3 X 3 1 D X 1 X X X X ANSI-ISEA 105  
A4

**OLINO**

Sweat. Shoulders and elbows reinforcement. Knitted cuffs and bottom of garment. 65% polyester 35% cotton fleece 260 g/m². Reinforcements: Polyurethane-coated Oxford polyester fabric.

**JUMPER3 S3 SRC**

Upper: Pigmented split leather, S3 water resistant treatment. Lining: Polyamide mesh. Insole: Removable premolded - Polyester on EVA. Outsole: Injected - Dual-density PU.

CE EN ISO 20345  
S3  
SRC

**Additional solutions****DIAMOND6****KAIZIO****PO110****INTERLAGOS LIGHT HE****MAGNY HELMET2****VISOR TORIC****VISOR HOLDER****SPIDERMASKP2W****M1200VW****ASO2 CLEAR****VV914****VENICUTB05  
VENICUTB07****VENICUTD05****GO-SPECS TEC CLEAR****BRIGHTON2****DT115****DT115CV****M2PA3STR****M2PA3STRF****PHOENIX****SURCHPO**



